

**METHODS AND MATERIALS FOR TREATING CONDITIONS ASSOCIATED
WITH METABOLIC DISORDERS**

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ABSTRACT OF THE DISCLOSURE

Disclosed are methods for treating a subject
10 suffering from phenylketonuria and/or phenylalanemia.
The methods include, in part, enterally administering to
the subject a LNAA supplement in which the weight ratio
of Leu to Val is greater than 2:1; in which the weight
ratio of Leu to iLeu is greater than 3:1; or which
15 includes one or more LNAAs and which further includes
Lys. LNAA supplements are also disclosed. Also
disclosed are methods for treating a subject suffering
from a condition involving a metabolic disorder involving
the metabolism of a first amino acid X. The method
20 includes enterally administering to the subject a
composition which (i) is substantially free from the
first amino acid X and (ii) which includes a second amino
acid Y that competes with amino acid X at a
gastrointestinal tract transporter.